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(54) **DATA PROCESSING SYSTEM**

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(57) Abstract:

PURPOSE: To provide the data processing system without deteriorating high-speed responsiveness even when the function of the system is more improved by providing independently first and second execution control data management means on the first and second execution control means.

CONSTITUTION: The peripheral system of an OS(operating system) 15 operates as an idle task 4 under the management of the OS 1. The execution is shifted to the OS 15 when tasks 7 to 9 under the management of the OS 1 are finished, and the tasks 10 to 13 managed by the OS 15 are executed. When tasks 10 to 13 issue a system call, the OS 15 executes the processing. When a system call is generated, the context of the task under execution is saved in a database 6 for task management. The task scheduling is performed by the OS 15, and the data of the database 6 is operated. The context of a newly scheduled task is restored in a register group of hardware for task execution from the database 6.

